

## GILA RIVER BASIN

## 09503700 VERDE RIVER NEAR PAULDEN, AZ

**LOCATION**--Lat 34°53'40", long 112°20'32", in SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 39, T.18 N., R.1 W., Yavapai County, Hydrologic Unit 15060202, in Prescott National Forest, on right bank 0.3 mi upstream from Verde Valley Ranch, 7 mi east of Paulden, 8 mi upstream from Hell Canyon, 8 mi downstream from Granite Creek, and 10 mi downstream from Sullivan Lake.

**DRAINAGE AREA**--2,507 mi<sup>2</sup> (includes 357 mi<sup>2</sup> in Aubrey Valley Playa, a closed basin).

**PERIOD OF RECORD**--July 1963 to current year.

**REVISED RECORDS**--WDR AZ--83--1: 1981. WDR AZ--89--1: Drainage area.

**GAGE**--Water-stage recorder. Elevation of gage is 4,117 ft above sea level, from topographic map.

**REMARKS**--No estimated daily discharges. Records good. Diversions and storage above station for irrigation and municipal use.

**EXTREMES FOR PERIOD OF RECORD**--Maximum discharge, 23,200 ft<sup>3</sup>/s Feb. 20, 1993, gage height, 14.25 ft, from rating curve extended above 7,600 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow; minimum daily discharge, 15 ft<sup>3</sup>/s May 13--23, 1964.

**EXTREMES FOR CURRENT YEAR**--Peak discharges greater than base discharge of 300 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Aug. 15.....	2145	*909	*5.31
Aug. 23.....	1400	676	3.96
Aug. 31.....	0045	731	4.09

Minimum daily discharge, 19 ft<sup>3</sup>/s on many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	21	21	24	24	26	21	21	21	20	20	52
2	21	21	21	24	24	27	21	21	21	20	19	29
3	21	21	21	24	24	26	21	21	21	19	19	24
4	21	21	21	24	24	26	22	21	21	19	19	22
5	21	21	21	24	23	27	22	21	21	19	19	22
6	21	22	21	24	23	27	22	21	21	19	19	21
7	21	22	21	24	23	27	22	21	21	19	19	21
8	21	22	22	25	23	27	22	21	21	19	19	21
9	21	22	21	25	23	27	22	21	21	19	19	30
10	21	22	21	25	23	27	22	21	21	19	19	25
11	21	21	22	25	23	27	21	21	21	19	19	22
12	21	21	22	24	22	27	21	21	21	19	19	22
13	21	22	22	24	25	27	21	21	21	19	19	21
14	21	21	22	24	24	27	21	21	21	19	21	20
15	21	21	22	25	24	26	22	21	21	19	144	20
16	21	22	22	24	23	27	21	21	21	19	51	20
17	21	22	22	25	23	26	22	21	21	19	80	20
18	21	22	22	25	23	26	22	21	20	19	39	20
19	21	22	22	25	23	26	21	21	20	19	25	20
20	21	22	22	25	24	25	21	21	21	19	23	20
21	21	22	22	25	24	25	21	21	20	20	29	20
22	21	22	22	25	25	25	21	21	20	20	35	20
23	22	22	22	25	25	25	21	21	20	19	401	20
24	21	22	22	25	25	24	21	21	20	19	224	20
25	21	21	22	25	25	24	21	21	20	19	179	20
26	22	21	23	25	28	23	21	21	20	19	133	20
27	21	21	23	24	26	23	21	21	20	19	154	20
28	21	21	23	24	27	22	21	21	20	20	64	20
29	21	22	23	24	---	22	21	21	20	20	54	20
30	21	22	23	24	---	22	21	21	20	20	376	20
31	21	---	23	24	---	22	---	21	---	22	313	---
TOTAL	653	647	679	759	673	788	640	651	618	599	2593	672
MEAN	21.1	21.6	21.9	24.5	24.0	25.4	21.3	21.0	20.6	19.3	83.6	22.4
MAX	22	22	23	25	28	27	22	21	21	22	401	52
MIN	21	21	21	24	22	22	21	21	20	19	19	20
AC-FT	1300	1280	1350	1510	1330	1560	1270	1290	1230	1190	5140	1330
CFSM	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.01
IN.	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2003, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
30.7	26.7	40.3	56.3	110	70.7
32.0	24.7	32.0	24.7	23.8	25.4
24.7	23.8	25.4	31.7	36.9	200
43.7	295	861	1443	669	155
1973	1986	1966	1993	1993	1978
1965	1967	1995	1996	1995	1967
18.7	20.4	21.9	21.7	19.6	19.3
1964	1965	1978	1972	1964	1972
21.3	16.2	21.3	16.2	20.1	18.4
1964	1964	1963	2002	1978	1964

SUMMARY STATISTICS

FOR 2003 WATER YEAR

WATER YEARS 1963 - 2003

ANNUAL TOTAL	9972	
ANNUAL MEAN	27.3	42.0
HIGHEST ANNUAL MEAN		215
LOWEST ANNUAL MEAN		22.5
HIGHEST DAILY MEAN	401	Aug 23
LOWEST DAILY MEAN	19	Jul 3
ANNUAL SEVEN-DAY MINIMUM	19	Jul 3
ANNUAL RUNOFF (AC-FT)	19780	30430
ANNUAL RUNOFF (CFSM)	0.013	0.020
ANNUAL RUNOFF (INCHES)	0.17	0.27
10 PERCENT EXCEEDS	26	29
50 PERCENT EXCEEDS	21	25
90 PERCENT EXCEEDS	20	22